

Title (en)

Battery, electrode, and current collector used therefor

Title (de)

Batterie, Elektrode und dafür verwendeter Stromabnehmer

Title (fr)

Batterie, électrode et collecteur de courant utilisé à ces fins

Publication

EP 2372822 A2 20111005 (EN)

Application

EP 11171498 A 20071226

Priority

- EP 07860119 A 20071226
- JP 2006352768 A 20061227
- JP 2007120768 A 20070501
- JP 2007128460 A 20070514
- JP 2007156012 A 20070613
- JP 2007237715 A 20070913
- JP 2007253199 A 20070928

Abstract (en)

An electrode which comprises a current collector, and an active material layer carried on said current collector is disclosed, wherein said current collector includes a base portion with a flat face, a plurality of primary projections projecting from said flat face, and a plurality of secondary projections projecting from the top of said primary projections. Further, said active material layer includes a plurality of columnar particles.

IPC 8 full level

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CPC (source: EP KR US)

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Citation (applicant)

- JP 2004127561 A 20040422 - HITACHI MAXELL
- WO 0131722 A1 20010503 - SANYO ELECTRIC CO [JP], et al
- JP 2002313319 A 20021025 - SANYO ELECTRIC CO
- JP 2006155958 A 20060615 - SONY CORP
- EP 07860119 A 20071226
- EP 2056381 A1 20090506 - PANASONIC CORP [JP]

Citation (examination)

US 2004224231 A1 20041111 - FUJIMOTO HIROYUKI [JP], et al

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US9929407B2

Designated contracting state (EPC)

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Designated extension state (EPC)

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EP 2056381 A1 20090506; **EP 2056381 A4 20110105**; **EP 2056381 B1 20120620**; BR PI0715197 A2 20130611; CN 101507022 A 20090812; CN 101507022 B 20120229; CN 102522567 A 20120627; CN 102522567 B 20140806; EP 2372821 A2 20111005; EP 2372821 A3 20111123; EP 2372821 B1 20140430; EP 2372822 A2 20111005; EP 2372822 A3 20111130; JP 2009099512 A 20090507; JP 2009164137 A 20090723; JP 4445030 B2 20100407; JP 4642835 B2 20110302; JP 4647014 B2 20110309; JP WO2008078755 A1 20100430; KR 101148610 B1 20120521; KR 101176255 B1 20120822; KR 20090042788 A 20090430; KR 20110077001 A 20110706; US 2009280407 A1 20091112; US 8986882 B2 20150324; WO 2008078755 A1 20080703

DOCDB simple family (application)

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